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Glenn P. Ladwig  
Glenn P. Ladwig, Patent Attorney

INFORMATION DISCLOSURE  
STATEMENT  
Examining Group 1632  
Patent Application  
Docket No. UF-221C1XCZ1  
Serial No. 10/706,635

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1632  
Applicants : Richard W. Moyer, Yi Li  
Serial No. : 10/706,635  
Filed : November 12, 2003  
Conf. No. : 8304  
For : Materials and Methods for Delivery and Expression of Heterologous DNA in Vertebrate Cells

MS AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§1.97 AND 1.98

Sir:

In accordance with 37 CFR §1.97 and §1.98, the applicants would like to bring to the attention of the Examiner, the references cited in the following patent application:

U.S. Serial No. 09/662,254, filed September 14, 2000.

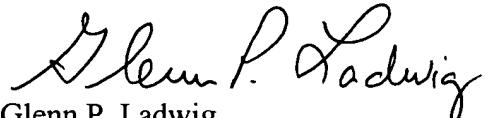
The subject application, Serial No. 10/706,635, claims the benefit under 35 USC §120 of the filing date of patent application Serial No. 09/662,254. The applicants respectfully request that the copies of references supplied in the Information Disclosure Statements of the 09/662,254 application, as well as references cited during the prosecution thereof, be made of record in the 10/706,635 application. As copies of the references filed in the 09/662,254 application, and cited on the attached

form PTO/SB/08, can be found in the 09/662,254 casefile, copies of those references are not provided herewith.

It is respectfully requested that the references cited in the 09/662,254 application be considered in the examination of the subject application and that their consideration be made of record.

The applicants respectfully assert that the substantive provisions of 37 CFR §§1.97 and 1.98 are met by the foregoing statements.

Respectfully submitted,



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GPL/mv

Attachment: Form PTO/SB/08 (4 pages)



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/706,635
Sheet	1	of	4	Filing Date	November 12, 2003
				First Named Inventor	Richard W. Moyer
				Art Unit	1632
				Examiner Name	
				Attorney Docket Number	UF-221C1XCZ1

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	U1	US-5,721,352	02-24-1998	Moyer et al.	All
	U2	US-5,753,258	05-19-1998	Schreier et al.	All
	U3	US-5,762,924	06-09-1998	Dall et al.	All
	U4	US-6,106,825	08-22-2000	Moyer et al.	All
	U5	US-5,935,777	08-10-1999	Moyer et al.	All
	U6	US-6,127,172	10-03-2000	Moyer et al.	All
	U7	US-			
	U8	US-			
	U9	US-			

<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)			
	F1	WO 94/13812 A2	06-23-1994	Univ. of Florida	All
	F2	WO 98/50571 A1	11-12-1998	Univ. of Florida	All
	F3	WO 96/09074 A1	03-28-1996	General Hosp. Corp.	All
	F4	WO 99/61069 A1	12-02-1999	Univ. of Florida	All
	F5				
	F6				
	F7				

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	R1	AFONSO, C.L. et al. "The genome of Melanoplus sanguinipes Entomopoxvirus" <i>J. Virol.</i> , 1999, 73:533-552.		
	R2	ARIF, B. M. and KURSTAK, E. The Entomopoxviruses. In "Viruses of Invertebrates," E. Kurstak, Ed., 1991, pp. 179-195. Marcel Dekker, Inc., New York.		
	R3	BAWDEN, A. L. et al. Entomopoxvirus Vectors. In "Viral Vectors: Basic Science and Gene Therapy," 2000, pg. 341-355, A. Cid-Arregui, Ed., Eaton Publishing, Natick, MA (In Press).		
	R4	BAWDEN, A.L. et al. "Complete Genomic Sequence of the Amsacta moorei Entomopoxvirus: Analysis and Comparison with Other Poxviruses" <i>Virology</i> , 2000, 274:120-139.		
	R5	BERNS, K.I. and BOHENZKY, R.A. "Adeno-Associated Viruses: An Update" <i>Adv. Virus Res.</i> , 1987, 32:243-306.		
	R6	FERNON, C.A. et al. "Replication of Heliothis armigera entomopoxvirus in vitro" <i>J. Invertebr. Pathol.</i> , 1995, 66:216-223.		
	R7	GAUTHIER, L. et al. "The Melolontha melolontha Entomopoxvirus (MmEPV) Fusolin Is Related To The Fusolins Of Lepidopteran EPVs And To The 37K Baculovirus Glycoprotein" <i>Virology</i> , 1995, 208:427-436.		
	R8	GOEBEL, S.J. et al. "The complete DNA sequence of vaccinia virus" <i>Virology</i> , 1990, 179, 247-66, 517-63.		
	R9	GOODING, L.R. "Virus proteins that counteract host immune defenses" <i>Cell</i> , 1992, 71:5-7.		
	R10	GOODWIN, R.H. et al. "Replication of the entomopoxvirus from Amsacta moorei in serum-free cultures of a gypsy moth cell line" <i>J. Invertebr. Pathol.</i> , 1990, 56:190-205.		
	R11	GRANADOS, R.R. "Entomopoxvirus infections in insects", In: <i>Pathogenesis of invertebrate Microbial Disease</i> , 1981, pp 102-126, Davidson, E.W. (ed.) New Jersey, Allanheld Totowa.		
	R12	GRUIDL, M.E. et al. "Mapping and molecular characterization of a functional thymidine kinase from Amsacta moorei entomopoxvirus" <i>Virology</i> , 1992, 186:507-516.		
	R13	HALL, R.L. and HINK, W.F. "Physical mapping and field inversion gel electrophoresis of Amsacta moorei entomopoxvirus DNA" <i>Arch. Virol.</i> , 1990, 110:77-90.		

Examiner Signature	Date Considered
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Sheet	3	of	4	Application Number	10/706,635
				Filing Date	November 12, 2003
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	R14	HALL, R.L. and R.W. MOYER "Identification, cloning, and sequencing of a fragment of Amsacta moorei entomopoxvirus DNA containing the spheroidin gene and three vaccinia virus-related open reading frames" <i>J. Virol.</i> 1991, 65:6516-6527.			T <sup>2</sup>
	R15	HALL, R.L. and MOYER, R.W. "Identification of an Amsacta spheroidin-like protein within the occlusion bodies of Choristoneura entomopoxviruses" <i>Virology</i> , 1993, 192:179-187.			
	R16	HALL, R.L. et al. "The Amsacta moorei entomopoxvirus spheroidin gene is improperly transcribed in vertebrate poxviruses" <i>Virology</i> , 1996, 224:427-436.			
	R17	KAPLITT, M.G. et al. "Long-term gene expression and phenotypic correction using adeno-associated virus vectors in the mammalian brain" <i>Nat. Genet.</i> 1994, 8:148-154.			
	R18	KOTIN, R.M. et al. "Characterization of a preferred site on human chromosome 19q for integration of adeno-associated virus DNA by non-homologous recombination" <i>The EMBO Journal</i> , 1992, 11(13):5071-5078.			
	R19	LANGRIDGE, W.H.R. "Detection of Amsacta moorei Entomopoxvirus and Vaccinia Virus Proteins in Cell Cultures Restrictive for Poxvirus Multiplication" <i>Journal of Invertebrate Pathology</i> , 1983, 42:77-82.			
	R20	LI, X. et al. "Cloning, sequencing and transcriptional analysis of the Choristoneura fumiferana entomopoxvirus spheroidin gene" <i>Virus Res.</i> , 1997, 47:143-154.			
	R21	LI, Y. et al. "Transient, Nonlethal Expression of Genes in Vertebrate Cells by Recombinant Entomopoxviruses" <i>Journal of Virology</i> , Dec. 1997, 71(12):9557-9562.			
	R22	LI, Y. et al. "High-level expression of Amsacta moorei entomopoxvirus spheroidin depends on sequences within the gene" <i>Journal of General Virology</i> , 1998, 79:613-622.			
	R23	LYTVYN, V. et al. "Comparison of the thymidine kinase genes from three entomopoxviruses" <i>J. Gen. Virol.</i> , 1992, 73:3235-3240.			
	R24	MOYER, R.W. Entomopoxviruses, p. 392-397, <i>Encyclopedia of Virology</i> , R.G. Webster and A. Granoff (eds.), 1994, Academic Press Ltd, London.			
	R25	NIENHUIS, A.W. et al. "Viruses as Therapeutic Gene Transfer Vectors" In: N.S. Young (ed.) <i>Viruses and Bone Marrow</i> , Marcel Decker, New York, 1993, pp 353-414.			
	R26	PALMER, C. et al. "Genetic modification of an entomopoxvirus: deletion of the spheroidin gene does not affect virus replication in vitro" <i>Journal of General Virology</i> , 1995, 76:15-23.			

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	R27	ROSS, G. et al. "Gene Therapy in the United States: A Five-Year Status Report" <i>Human Gene Therapy</i> , Sept, 1996, 7:1781-1790.			T <sup>2</sup>
	R28	SMITH, G.L. et al. "Nucleotide sequence of 42 kbp of vaccinia virus strain WR from near the right inverted terminal repeat" <i>J. Gen. Virol.</i> , 1991, 72:1349-1376.			
	R29	SMITH, G.L. "Secreted poxvirus proteins that interact with the immune system" <i>Effects of Microbes on the Immune System</i> , 2000, 491-507.			
	R30	SRISKANTHA, A. et al. "Mapping of the Heliothis armigera entomopoxvirus (HaEPV) genome, and analysis of genes encoding the HaEPV spheroidin and nucleoside triphosphate phosphohydrolase I proteins" <i>J Gen Virol</i> , 1997, 78:3115-3123.			
	R31	VERMA, I.M. and N. SOMIA "Gene Therapy C promises, problems and prospects" <i>Nature</i> , 1997, 389:239-242.			
	R32	WINTER, J. et al. "The effect of inhibitors on the growth of the entomopoxvirus from Amsacta moorei in Lymantria dispar (gypsy moth) cells" <i>Virology</i> , 1995, 211:462-473.			
	R33	SMITH, G.L. "Virus strategies for evasion of the host response to infection" <i>Trends in Microbiology</i> , March 1994, 2(3):81-88.			
	R34	MUSTAFA, A. and L. YUEN "Identification and sequencing of the Choristoneura biennis entomopoxvirus DNA polymerase gene" <i>J. DNA Sequencing and Mapping</i> , 1991, 2:39-45.			
	R35	MARSHALL, E. "Gene Therapy's Growing Pains" <i>Science</i> , 1995, 269:1050-1055.			
	R36	ORKIN et al. Report and Recommendations of the Panel to Assess the NIH Investment in Research on Gene Therapy" 1995.			
	R37				
	R38				
	R39				

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